

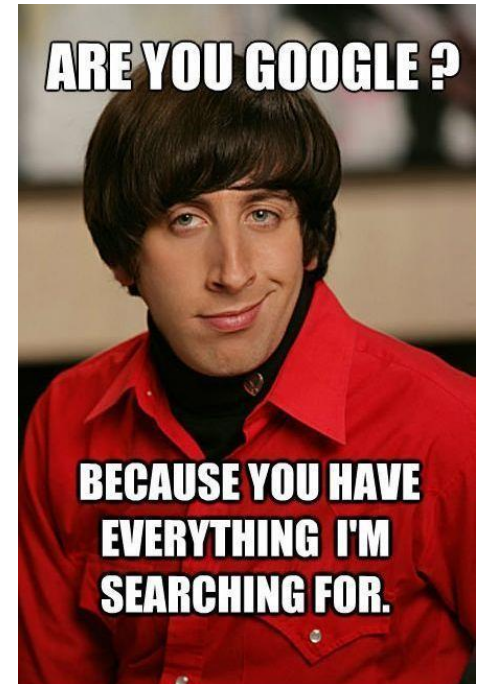
Additional DCB-Relevant Engagement and Funding Opportunities

*Shannon Hughes, Ph.D.
Division of Cancer Biology
New Grantee Workshop*

Roles of the NCI Program Directors (PDs)

NCI PDs have several roles in addition to stewardship of grants

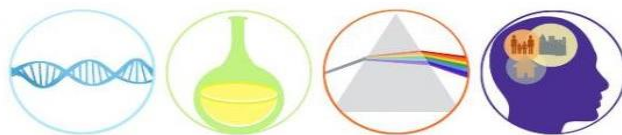
- I. Inform NCI and NIH leadership of notable research advances
- II. Organize sessions at scientific conferences
- III. Plan scientific workshops
- IV. Draft funding opportunity announcements



I. Inform NCI and NIH leadership of notable research advances

Information on scientific achievements may be used by an NCI PD in a variety of contexts

- NCI Congressional Budget Justification or response to Congressional inquiry
- Internal journal clubs and seminars
- Share knowledge on research advances with NCI and NIH colleagues
 - Strategic planning
 - Set priorities
 - Coordinate research across different fields
 - Identify gaps in research
 - Identify areas of potential synergy between groups or scientific areas



We venture onto social media:



We can help to get your work out there

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Precis

Leade

NIH DIRECTOR'S BLOG

Blog Info

Editor: Kendall Morgan, Ph.D.

If you have comments or questions not related to the current discussions, please direct them to olib@od.nih.gov

If you are looking for general information about the National Institutes of Health, or the 27 Institutes and Centers, please visit <http://www.nih.gov/>

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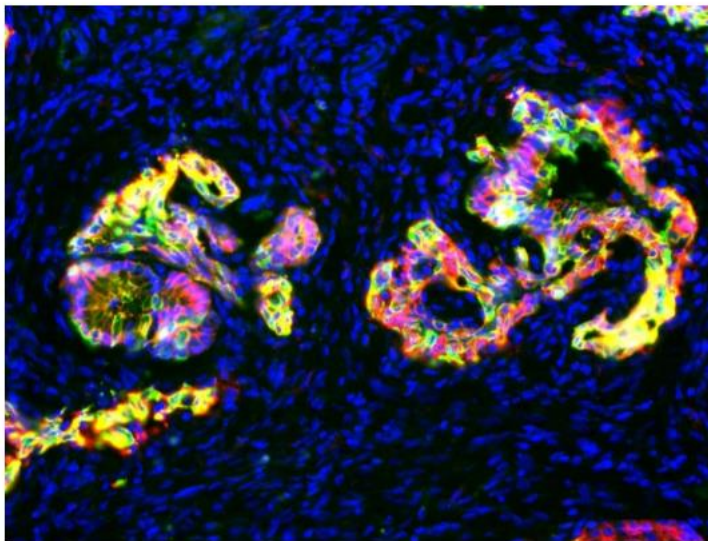
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Credit: Nathan Krah, University of Utah, Salt Lake City

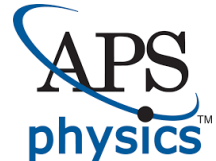
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II. Organize sessions at scientific conferences

- NCI PDs are often involved in co-organizing sessions at scientific conferences
 - Grantsmanship
 - Introduce NCI programs and funding opportunities
 - Convene investigators from disparate disciplines
 - e.g., engage cancer researchers with engineers and physicists



III. Plan scientific workshops

NCI sponsors scientific workshops on topics that appear to be emerging areas of interest or areas that might need coordination

- Intent of NCI PD to plan workshops
 - Gain knowledge on the status of the field
 - Identify where gaps exist
 - Determine if NCI coordination or resources are needed
 - Convene investigators from disparate disciplines as needed
- Investigators serve in various roles at NCI workshops
 - Participant
 - Discussant
 - Speaker
 - Co-chair



Systems Biology of Metastasis

April 24 – 25, 2017

THE UNIVERSITY OF TEXAS
MDAnderson
Cancer Center
Making Cancer History®

III. Plan scientific workshops

A few examples of NCI Division of Cancer Biology workshops in 2016-2017

1. Oncogenic Senescence (June 23-24, 2016)
2. Modulation of Anti-tumor Immune Responses by Diet- and Microbiome-derived Metabolites (August 31 - September 1, 2016)
3. Tumor-Immune Microenvironment (January 18-19, 2017)
4. Systems Biology of Metastasis (April 24-25, 2017)
5. Mechanistic Links Between DDR & Immunogenic Toxicity in Transformed Cells (August 16-17, 2017)
6. NCI Objective Measures of Cancer (September 14-15, 2017)
7. Immune Interventions in Oncology (September 18-19, 2017)

IV. Draft funding opportunity announcements (FOAs) *From identification of need → funding announcement (Example 1)*

Need: A better understanding of how different cell death mechanisms contribute to cancer processes

Action: Convene subject matter experts across extramural community to help define state of the field and the overall need.

2015 Workshop: “Cell Death in Cancer Progression and Resistance to Therapy”

2017: PAR-17-449 (R21), PAR-17-440 (R01) “The Interplay of Cell Death Pathways in Cancer Cell Survival and Resistance to Therapy”

Konstantin Salnikow, Ph.D.
Email: salnikok@mail.nih.gov
(for basic cancer biology research)

Suzanne Forry, Ph.D.
Email: forryscs@mail.nih.gov
(for preclinical research)



IV. Draft funding opportunity announcements (FOAs) *From identification of need → funding announcement (Example 2)*

Need: Well-defined *in vitro* experimental models for mechanistic study of tumorigenesis

Action: Determine when the time was right to accelerate the field

2012: “Applying Physical Sciences Perspective From Developmental Biology and Tissue Engineering to Cancer Research”

2014: “Biomimetic Tissue Engineered Systems for Advancing Cancer Research”

2015: “Additive Manufacturing for Tumor Engineering”
(Joint with NSF)

2016: PAR-16-105 “Cancer Tissue Engineering Collaborative” (R01)



IV. Draft funding opportunity announcements (FOAs)

Current list of DCB-sponsored FOAs ([link](#))

[PAR-16-344](#) Biological Comparisons in Patient-Derived Cancer Models (U01) (Mike Espey)

[PA-16-177](#) Pilot and Feasibility Studies Evaluating the Role of the Epitranscriptome (R21) (Jennifer Strasburger)

[PA-16-251](#), [PA-16-252](#) Gene Fusions in Pediatric Sarcomas (R01, R21) (Keren Witkin)

[PA-16-425](#), [PA-16-426](#) “High” or “Medium” Priority AIDS Research on Non-AIDS-defining or AIDS-defining Cancers (Betsy Read-Connole)

[PAR-16-226](#), [PAR-16-227](#) The Role of Mobile Genetic Elements in Cancer (R21, R01) (Kevin Howcroft)

[PAR-16-228](#), [PAR-16-229](#) Metabolic Reprogramming to Improve Immunotherapy (R21, R01) (Susan McCarthy)

[PAR-16-245](#), [PAR-16-246](#) Neural Regulation of Cancer (R21, R01) (Chamelli Jhappan)

[PAR-16-131](#) Cancer Systems Biology Consortium (U01) (Shannon Hughes)

[PAR-17-171](#) Enabling Biomimetic Tissue-Engineered Technologies for Cancer Research (R01) (Nastaran Zahir)

[PAR-17-244](#), [PAR-17-245](#) Enhance Applicability of Mammalian Models for Translational Research (Nancy Boudreau)

[PA-17-138](#) Admin Supps to Promote Research Collaborations on Fusion Oncoproteins as Drivers of Childhood Cancer (Keren Witkin)

[PA-17-219](#), [PA-17-220](#) Mechanisms of Alcohol-associated Cancers (R21, R01) (Ron Johnson)

[PA-17-459](#), [PA-17-460](#) Biology of Lung, and Head and Neck Preneoplasias (R21, R01)

[PAR-15-331](#), [PAR-15-332](#), [PAR-15-333](#), [PAR-15-334](#) (U24, U01, U24, R21) Informatics Technology for Cancer Research (Jerry Li)

[PAR-17-150](#), [PAR-17-151](#) Mechanisms of Disparities in Chronic Liver Diseases and Cancer (R21, R01) (Betsy Read-Connole)

[PAR-17-203](#), [PAR-17-204](#) Inter-organelle Communication in Cancer (R21, R01) (Mike Espey)

[PAR-17-203](#), [PAR-17-207](#) Alliance of Glycobiologists for Cancer Research (U01, U01) (Neerja)

[PAR-17-475](#), [PAR-17-476](#) Electronic Nicotine Delivery Systems (ENDS) (R21, R01) (Ron Johnson)

[RFA-CA-17-030](#) HIV/AIDS and the Tumor Niche (R01) (Betsy Read-Connole)

Thanks for your attention



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